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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,434	03/03/2005	Sadaaki Hirai	123048	3004
25944 OLIFF & BERI	7590 08/15/200 RIDGE, PLC	EXAMINER		
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ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1793	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/526,434	HIRAI, SADAAKI		
Office Action Summary	Examiner	Art Unit		
	DIANA J. LIAO	1793		
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be the will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 14	nis action is non-final. vance except for formal matters, p			
Disposition of Claims				
4) ☐ Claim(s) 21-37 is/are pending in the application 4a) Of the above claim(s) 21-33 and 35-37 is 5. ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 34 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subjected.	/are withdrawn from consideration	ı.		
Application Papers				
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according a constant may not request that any objection to the Replacement drawing sheet(s) including the correct of the specific path or declaration is objected to by the specific path of the specific path o	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date		

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DETAILED ACTION

Election/Restrictions

1. Newly submitted claims 35-37 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: they involve the use of a water-insoluble organic material, and not originally elected species, an inorganic material.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 35-37 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Status of Application

1. Claim 34 is presented for examination, claim 34 amended and claims 35-37 new. Since previously elected species d(2), encompassing step (v) in the claims, has been cancelled, examination has been extended to another species. Species b(2), disposing an porous outer wall followed by impregnation by an inorganic material, is presented for examination.

Claim Rejections - 35 USC § 102/103

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claim 34 is rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Domesle, et al. (US 5,157,007).

Domesle '007 teaches a catalyst comprising an open-cell honeycomb ceramic carrier with a plurality of channels through which gases may freely flow. The carrier is coated with an additional supporting material such as alumina, and then impregnated by metal compounds. (claim 1) A specific example disclosed involves a cylindrical open cell honeycomb of cordierite, which is coated with Al₂O₃ by immersion. The coated monolith is then impregnated with a solution of Pt(NH₃)₄(OH)₂ and vanadyl oxalate. (col

6, lines 44-56) Since the porous wall is impregnated by Pt(NH₃)₄(OH)₂, an inorganic material, the addition of any other materials, such as vanadyl oxalate, is not excluded by the instant claims.

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The teaching of an alumina coating through immersion in Domesle '007 is found to inherently dispose an outer wall on the outer periphery of the cell structure.

Immersion implies that the whole monolith had to enter the slurry, and thus the outer periphery of the structure should have been coated, and created a "wall" around it. The impregnation of the coated monolith by metal salts is found to equate to an inorganic material, forming an impregnated part, as recited by the instant claims. Alternatively, it would have been obvious to deposit both the porous coating and the impregnated materials on the outer periphery of the monolith in order to create a larger catalytic surface with which to purify exhaust gases.

Although the ceramic base is not taught to be porous, this is found to be inherent because a washcoat of alumina, for example, is easily deposited through immersion.

Ceramics are also well known porous materials. Alternatively, in the event that it is not inherent that the base monolith is porous, it would have been obvious to one of ordinary skill in the art to choose a porous base in order to facilitate washcoat adhesion.

In addition, Domesle '007 teaches a comparative example wherein a filter with alternatingly plugged cells is coated with a layer of alumina and then impregnated with platinum. (col 6, line 59-col 7, line 5) In this case, the filter base material must be porous since the gas to pass through is meant to diffuse through the walls of the

honeycomb in order to pass through the filter. Although this monolith is not said to be coated by immersion, Domesle '007 teaches that a coating is poured over the body, which fairly teaches that the whole monolith, including the outer periphery, is coated with said alumina and later platinum.

Response to Arguments

6. Applicant's arguments with respect to claim 34 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Horikawa, et al. (US 5,188,779).
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIANA J. LIAO whose telephone number is (571)270-3592. The examiner can normally be reached on Monday - Friday 8:00am to 5:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Primary Examiner, Art Unit 1793

DJL